

H. 화학산업과 e-Commerce

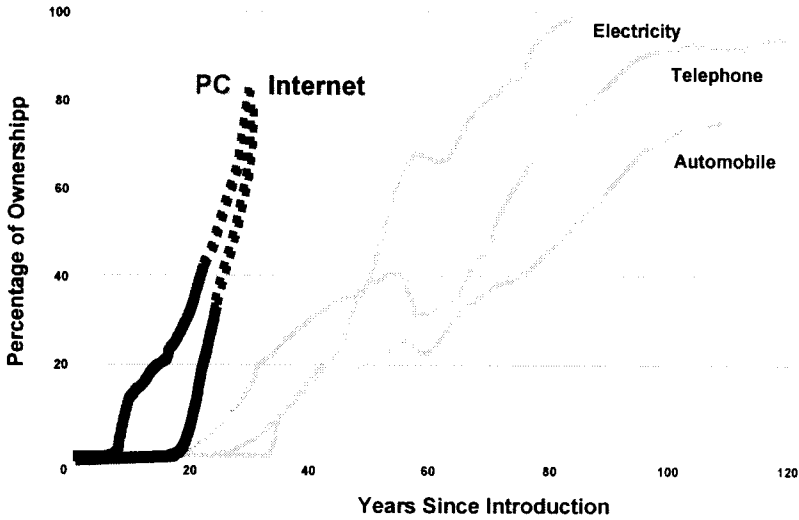
(주)마이크로소프트

김 은 호

1. e-Commerce General Overview

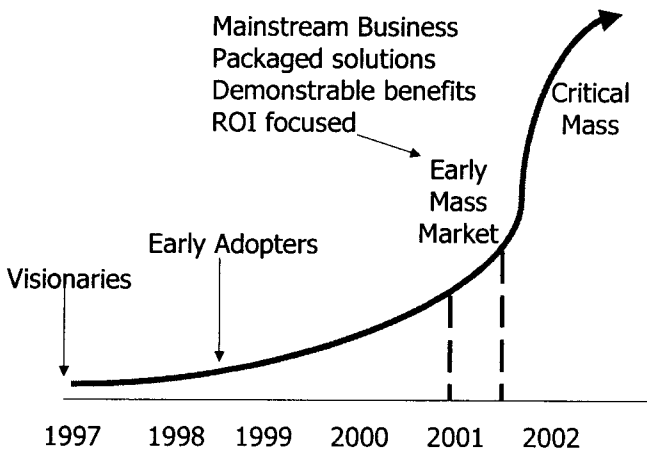
1.1 e-Commerce 동향

The Internet As A Catalyst



Source: The Economist

E-Commerce Technology Adoption Curve



기업의 변화 - Old world & New world

전체 경제에서의 가치의 이전 - 1998

Company Name	Sales (\$Mil)	Market Cap (\$Mil)	Number of Employees
Old Economy			
General Motors Corp.	161,315.0	58,699.1	594,000
Sears, Roebuck & Co.	41,322.0	17,160.7	324,000
Merrill Lynch & Co.	35,853.0	32,652.7	63,800
New York Times Co.	2,936.7	5,377.5	13,200
Barnes & Noble, Inc.	2,796.9	2,273.2	14,500
New Economy			
America Online Inc.	2,600.0	111,375.6	8,500
Amazon.com, Inc.	610.0	21,758.2	2,100
E*TRADE Group, Inc.	245.3	6,957.3	833
Yahoo! Inc.	203.3	34,086.9	803
eBay Inc.	47.4	19,296.5	160

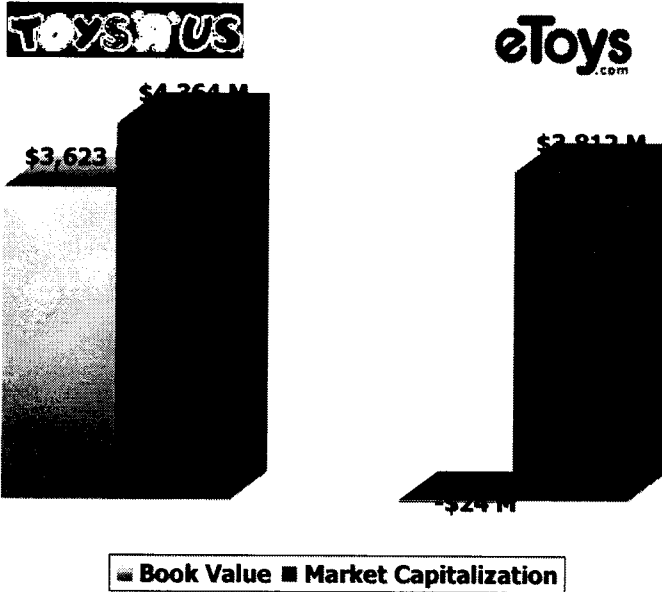
Sources: Bloomberg, VentureSource, company financial reports

Market Cap. Ranking: US

(\$millions)

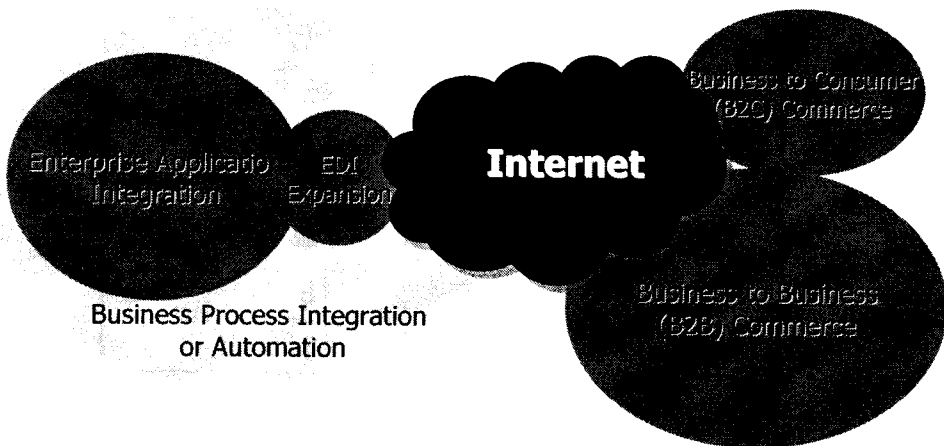
1992	1993	1994	1995
1 EXXON	1 EXXON	1 GENERAL ELECTRIC	1 GENERAL ELECTRIC
2 PHILIP MORRIS	2 GENERAL ELECTRIC	2 EXXON	2 EXXON
3 GENERAL ELECTRIC	3 PHILIP MORRIS	3 COCA-COLA	3 AT & T
4 MERCK	4 COCA-COLA	4 PHILIP MORRIS	4 COCA-COLA
5 COCA-COLA	5 MERCK	5 GENERAL MOTORS	5 WAL-MART STORES
6 INTL. BUSINESS MACHINES	6 PROCTER & GAMBLE	6 MERCK	6 PHILIP MORRIS
7 BRISTOL MYERS SQUIBB	7 PEPSICO	7 PROCTER & GAMBLE	7 MERCK
8 PROCTER & GAMBLE	8 IBM	8 E. I. DU PONT DE NEMOURS	8 PROCTER & GAMBLE
9 JOHNSON & JOHNSON	9 E. I. DU PONT DE NEMOURS	9 PROCTER & GAMBLE	9 INTL. BUSINESS MACHINES
10 E. I. DU PONT DE NEMOURS	10 BRISTOL MYERS SQUIBB	10 MERCK	10 MICROSOFT
11 ABBOTT LABORATORIES	11 GENERAL MOTORS	11 IRM	11 E. I. DU PONT DE NEMOURS
12 PEPSICO	12 MOBIL	12 PERGO	12 JOHNSON & JOHNSON
13 PFIZER	13 AMOCO	13 MOTOROLA	13 MERCK
14 AMERICAN HOME PRODUCTS	14 JOHNSON & JOHNSON	14 INTEL	14 INTEL
15 MERCK	15 CHEVRON	15 CHEVRON	15 GENERAL MOTORS
16 GENERAL MOTORS	16 INTEL	16 BRISTOL MYERS SQUIBB	16 AMERICAN INTL. GROUP
17 AMOCO	17 PROCTER & GAMBLE	17 AMOCO	17 SIE
18 CHEVRON	18 MINNESOTA MINING & MFG	18 JOHNSON & JOHNSON	18 BRISTOL MYERS SQUIBB
19 GILLEY	19 ABBOTT LABORATORIES	19 HEWLETT-PACKARD	19 MOTOROLA
20 MINNESOTA MINING & MFG	20 AMERICAN HOME PRODUCTS	20 MINNESOTA MINING & MFG	20 AMOCO
1996			
1 GENERAL ELECTRIC	1 GENERAL ELECTRIC	1 GENERAL ELECTRIC	1 Microsoft Corporation
2 COCA-COLA	2 COCA-COLA	2 MICROSOFT	2 General Electric
3 AT & T	3 EXXON	3 COCA-COLA	3 International Business
4 EXXON	4 MICROSOFT	4 EXXON	4 Intel Corporation
5 PHILIP MORRIS	5 INTEL	5 MERCK	5 Tropicana Telegraph and
6 MERCK	6 MERCK	6 INTEL	6 Cisco Systems, Inc.
7 INTL. BUSINESS MACHINES	7 PHILIP MORRIS	7 PFIZER	7 Wal-Mart Stores, Inc.
8 JOHNSON & JOHNSON	8 PROCTER & GAMBLE	8 WAL-MART STORES	8 Lucent Technologies
9 MICROSOFT	9 JOHNSON & JOHNSON	9 PROCTER & GAMBLE	9 Lucent Technologies
10 PROCTER & GAMBLE	10 INTL. BUSINESS MACHINES	10 BRISTOL MYERS SQUIBB	10 AT & T Corp.
11 WAL-MART STORES	11 WAL-MART STORES	11 AT & T	11 Alltel Corp.
12 HEWLETT-PACKARD	12 E. I. DU PONT DE NEMOURS	12 PHILIP MORRIS	12 MCI WorldCom Inc.
13 PEPSICO	13 BRISTOL MYERS SQUIBB	13 JOHNSON & JOHNSON	13 Merck & Co., Inc.
14 INTEL	14 PFIZER	14 INTL. BUSINESS MACHINES	14 WorldCom
15 WAL-T DISNEY	15 AMERICAN INTL. GROUP	15 AMERICAN INTL. GROUP	15 The Coca-Cola
16 E. I. DU PONT DE NEMOURS	16 AT & T	16 BPPY SHIRE RATHWAY	16 American International
17 MOBIL	17 CITICORP	17 LUCCENT TECHNOLOGIES	17 Bristol-Myers Squibb
18 BRYARSHIRE RATHWAY	18 HEWLETT-PACKARD	18 BELL ATLANTIC	18 Pfizer Inc.
19 AMERICAN INTL. GROUP	19 MOBIL	19 E. I. DU PONT DE NEMOURS	19 Royal Dutch Petroleum
20 BRISTOL MYERS SQUIBB	20 WAL-T DISNEY	20 SBC COMMUNICATIONS	20 Johnson & Johnson
1997			
1998			
1999			

Ideas Have Value



Internet Changes & Business Drivers

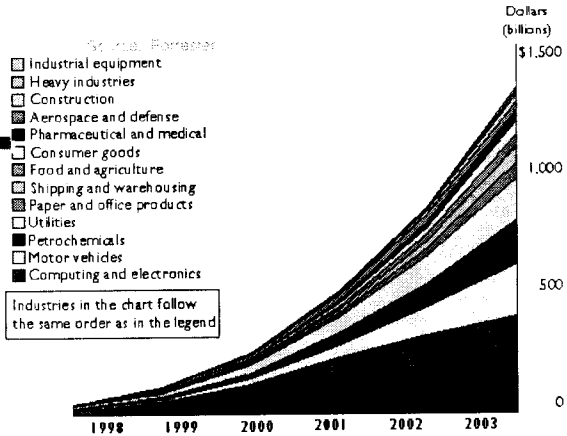
Market developments driving, and being driven by, changes in Internet technologies



B2B E-Commerce

- More than just buying and selling
- Deeper relationships with partners
- The "fulfillment engine" behind B2C

\$1.5T
by 2003

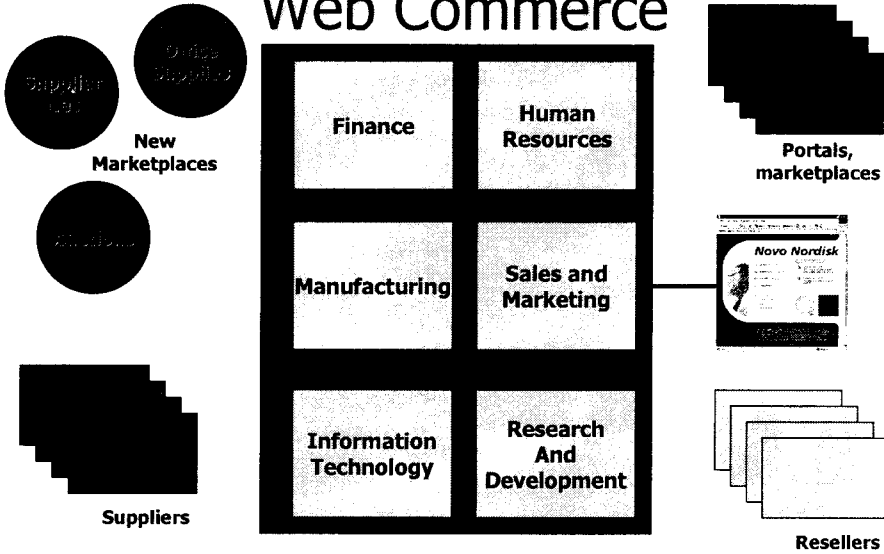


E-Commerce Data and Projections

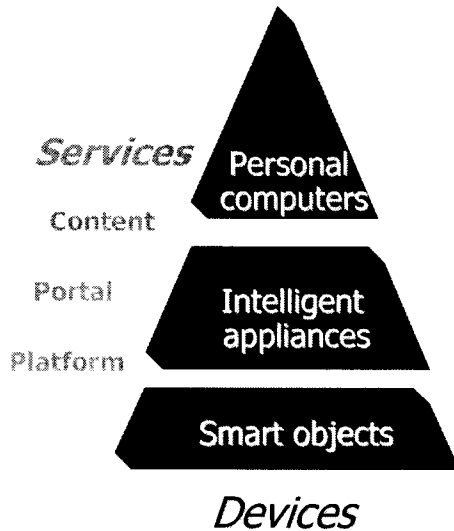
	1999	2003
Population	59.7 억	63억
Web Users	1.30 억	3.50 억
URLS	7백5십만	77억
US Mix	50%	33%
Under 18	13.5%	22.3%
Web Rev.	\$980억	\$1.3조
% buying	26%	40%+
% B2B	72%	87%
Ad Spend	\$33억	\$100.8 억

Source: eGlobal Report – eMarketer – July 1999

Growing Complexity of Web Commerce

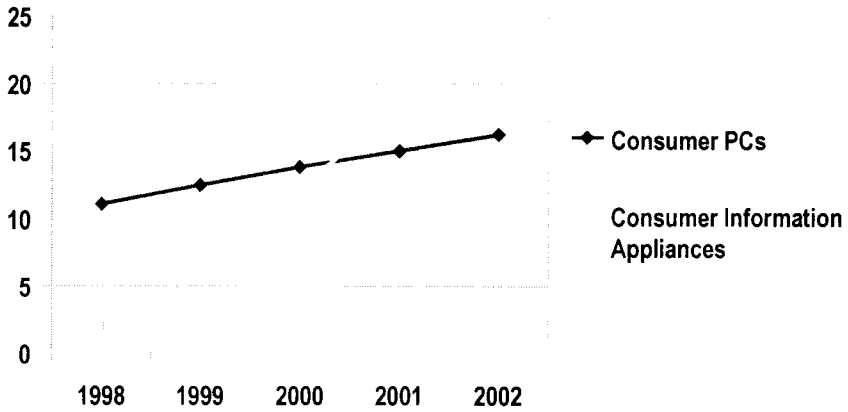


Computing Everywhere



Gradual ... but Unstoppable!

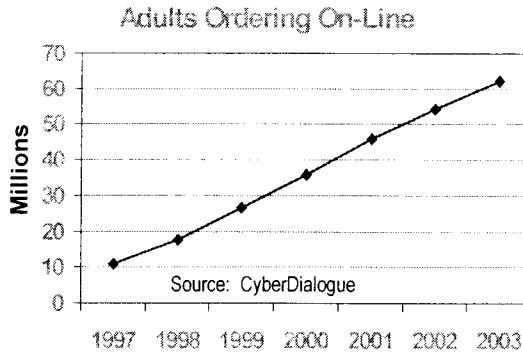
U.S. Shipment of PCs vs. Information Appliances (M)



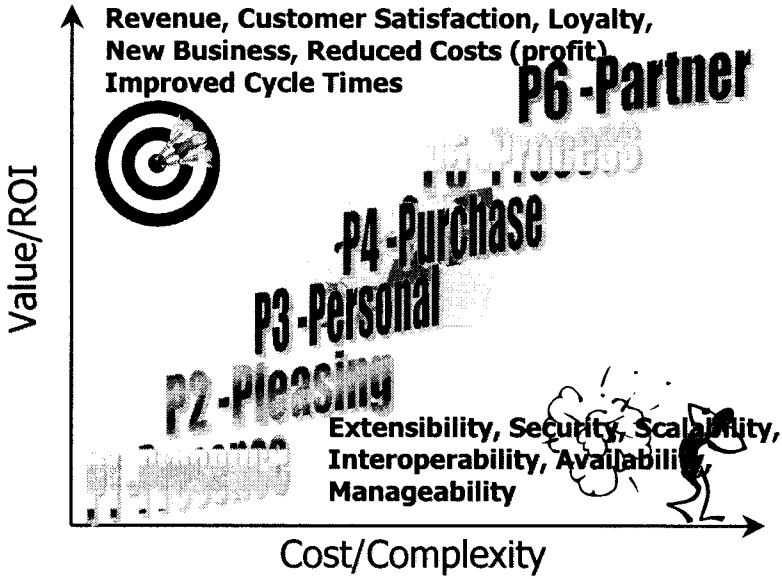
Source: IDC January 1999 Information Appliances vs. PCs Report (Consumer Devices)

Digital Homes & Consumers

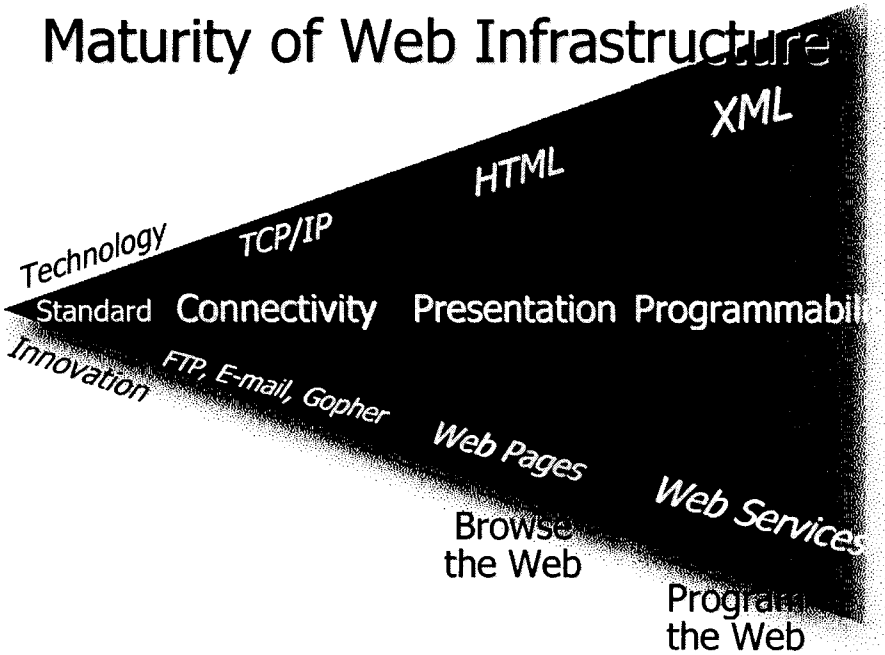
- 40% of US homes now online
- 26M homes with broadband by 2003



Internet Site Taxonomy



Maturity of Web Infrastructure



Web technology를 어떻게 사용할까?

- ❖ Reduce costs
- ❖ Provide world class support and services to customers and partners
- ❖ Build flexible commerce applications as quickly as possible
- ❖ Integrate systems with internal applications and platforms
- ❖ Integrate processes within and between organizations
- ❖ Attract new customers and take advantage of new, emerging markets

The Way is Simple



Only make new mistakes



*Redundant systems
are death*



*Why do my customers
really buy my products?*

Enterprise E-Commerce Vision

- ◆ Leverage web standards and technology to enrich customer and partner relationships
- ◆ Automate value chain processes using web infrastructure
- ◆ Provide integration and interoperability with existing systems to minimize time to market and maximize ROI
- ◆ Support distributed MegaServices and communities for promotion, trade and collaboration

e-Commerce Solution Requirements

- ◆ Industrial strength, commodity-based platform supporting lights out operations
 - ◆ Scalability
 - ◆ Interoperability
 - ◆ Availability
 - ◆ Manageability
 - ◆ Security
- ◆ Unmatched application, service, and hosting partner offerings
- ◆ Best tools for development of applications and services
- ◆ Reusable, distributed services easily accessible as commerce building blocks

Top E-Tailers – August 1999

- Of the top 10 Internet retail sites, 6 are built on the Microsoft platform.

Rank	Company	Visits	Unique Visits	Buy Rate
2	buy.com	314,000	2,586,000	12.1%
3	barnesandnoble.com	289,000	3,871,000	7.5%
5	planetrx.com	256,000	1,655,000	15.5%
6	mothernature.com	241,000	1,910,000	12.6%
7	drugstore.com	191,000	1,082,000	17.6%
10	smarterkids.com	93,000	1,734,000	5.4%

Source: internet.com Corp, August 1999

many companies using Internet Tech.



Industrial Strength Platform

Mission critical online applications

◆ Online catalog: 8+ million books



◆ Online catalog: 1.5+ million items



◆ \$ volume: \$30+ million per day



◆ \$ volume: \$50M Q1, 12X a retail store



◆ Transactions: 100,000+ orders in a day



Industrial Strength Platform

Mission critical online applications

◆ Transactions: 24,000+ orders in a day,
over 1,000,000 line items total



◆ Availability: 99.999+% under load of ~30
million hits per day



◆ Growth: From 0 to 5+ billion hits per month
in less than one year



◆ Growth: Up to 40mil records per hour



◆ Users: Tens of thousands of accounts



Scalability



◆ Requirement

- ◆ Scale commerce application as traffic increases
- ◆ Provide custom pages for different customers
- ◆ Streamline, simplify, and reduce cost of support

◆ Solution

- ◆ High volume, mission-critical e-commerce with standard software
- ◆ Dual 333Mhz Dell PowerEdge Servers, Cisco load balancing

◆ Results

- ◆ \$30 million per day web sales and growing
- ◆ Service 10,000 custom business pages
- ◆ Expose 45,000 support entries for 100,000 customers per week

Availability



◆ Requirement

- ◆ Comply with changing SEC oversight regulations
- ◆ Monitor up to one billion shares transacted per day in realtime
- ◆ 100% availability while market is open

◆ Solution

- ◆ Replaced oversight system on Tandem mainframe

◆ Results

- ◆ 99.999+% reliability since going live
- ◆ Cost effective scalability, tested at four billion shares transacted per day (4 times the requirement)
- ◆ 2+ terabyte SQL production database, 6 billion records in base transaction table
- ◆ Real-time implementation of new fraud detection rules

Interoperability



◆ Requirement

- ◆ Access SAP R/3 on UNIX, and CICS on mainframe
- ◆ Provide real time access to legacy data
- ◆ Provide scalable, robust, interoperable system

◆ Solution

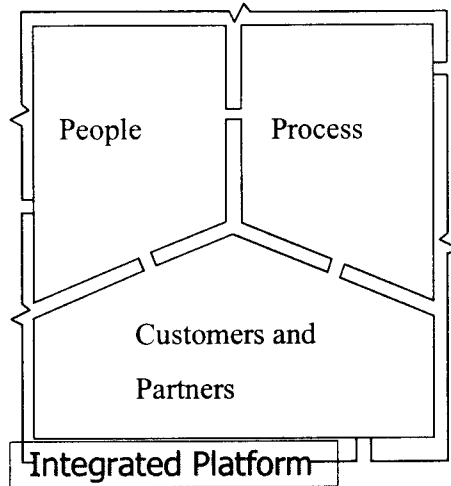
- ◆ Custom application to link customers with real-time inventory and order-entry systems

◆ Results

- ◆ "Virtual inventory" capability
 - ◆ Customer catalogs provide product information via transparent pass-through calls to Merisel
- ◆ Automated order creation
- ◆ Electronic reseller service to 25,000 resellers

1.2 Microsoft의 e-Commerce 전략

|The Business Internet



Microsoft E-Commerce Today

- ◆ 49% market share among commerce server products
- ◆ 36% commerce sites on NT with IIS
- ◆ 52% of top 50 commerce sites on NT/IIS
- ◆ 64% of web-based procurement systems on NT/IIS
- ◆ 60% of top 10 web retailers on NT/IIS

Microsoft E-Commerce Today

- 49% market share among commerce server products
- 36% commerce sites on NT with IIS
- 52% of top 50 commerce sites on NT/IIS
- 64% of web-based procurement systems on NT/IIS
- 60% of top 10 web retailers on NT/IIS

Windows DNA 2000

Megaservices	Web Service building blocks
Commerce Server	Next-generation e-commerce
BizTalk Server	Business process integration
Host Integration	Works with what you have
AppCenter Server	Server farm management
SQL Server 2000	RDBMS with XML store
Windows 2000	Built-in application services

MSN for the Enterprise

Integrating the Platform with the Portal

- ◆ Develop long-term campaigns that work



#3 in reach as an independent portal, #1 in reach through LinkExchange, reaching over 70% of all Internet users
 Target content by demographics, geography, ZIP code
 112+ unique placements to MSN, digital brochures, sponsorships, network packages
 Search, Content Sponsorships, and Affiliate Programs

- ◆ Private labeling of products and properties



- ◆ Sharing what we learn through reporting and collaboration

One MSN, 3rd Most Popular

No.	Domain	Reach %	Reach (000)
1	YAHOO.COM	51.1	30,674
2	AOL.COM	49.3	29,602
3	MSN.COM	34.2	20,489
4	GEOCITIES.COM	32.7	19,604
5	GO.COM	32.2	19,334
6	NETSCAPE.COM	31.1	18,666
7	EXCITE.COM	26.0	15,621
8	LYCOS.COM	24.0	14,401
9	MICROSOFT.COM	23.8	14,283
10	BLUEMOUNTAINARTS.COM	21.1	12,632
11	ANGELFIRE.COM	19.8	11,895
12	TRIPOD.COM	19.1	11,438
13	HOTMAIL.COM	18.8	11,293
14	ALTAVISTA SEARCH SERVICES*	16.2	9,709
15	XOOM.COM	15.5	9,270

MSNBC, MoneyCentral, HomeAdvisor, Expedia,



Source: Media Metrix 2/99

MSN Category Leadership



Hotmail - #1 with more than 35 million registered members; over 150,000 daily sign-ups



MSNBC - #1 general news site 20 out of 27 months since launch; 8 million monthly visitors



MoneyCentral - #2 personal finance site; 4.7 million monthly users



CarPoint - #1 car buying site; \$450 million in cars sold through CarPoint affiliated dealers



Expedia - #2 travel site, over 5 million monthly users; #1 sales (\$10.5 million in weekly bookings)

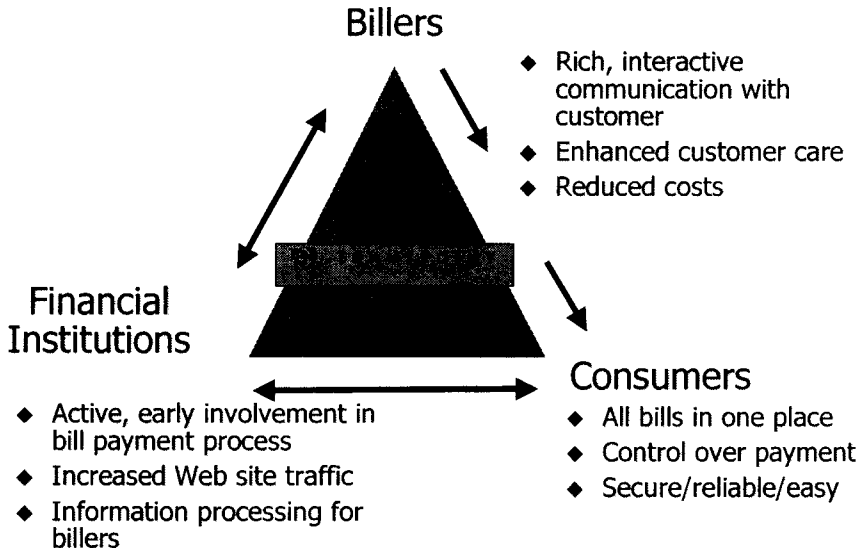


HomeAdvisor - #2 home buying guide; Voted #1 best new site on the year (PC Mag.)

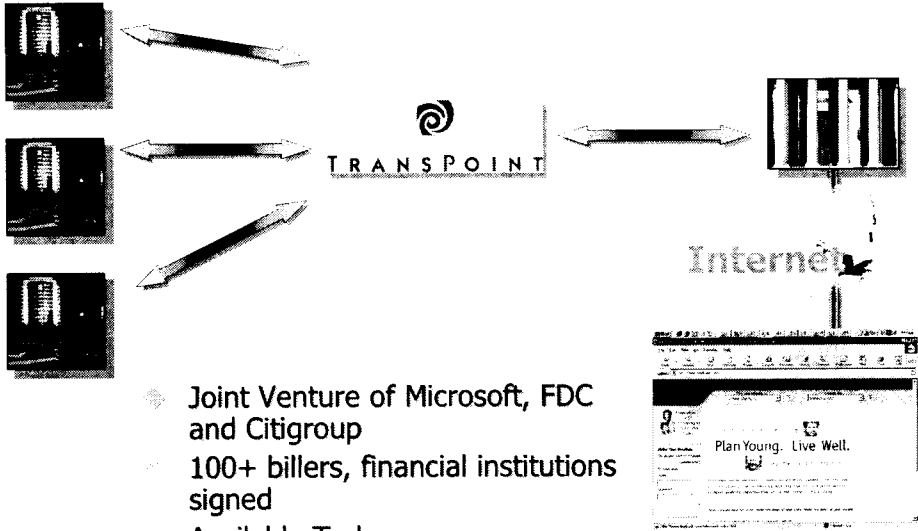


Gaming Zone - #2 with 4.0 million monthly users; peak 30,262 simultaneous gamers

TransPoint Focus

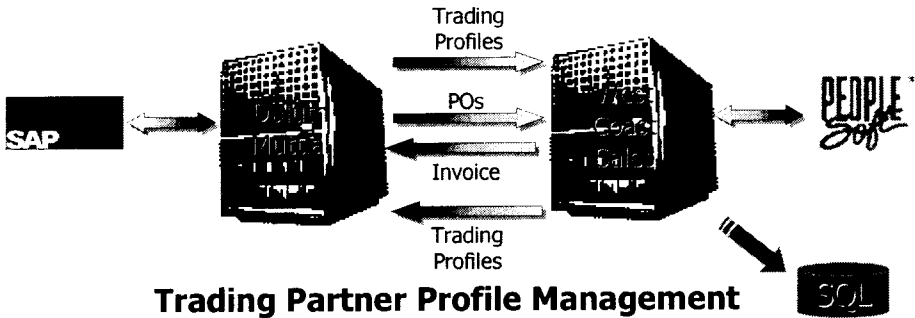


TransPoint Solution



- ◆ Joint Venture of Microsoft, FDC and Citigroup
- ◆ 100+ billers, financial institutions signed
- ◆ Available Today

BizTalk Server Capabilities



Trading Partner Profile Management
Business Desk (Profiles and Agreements)

Application Integration

EDI interoperability, XML tools for mapping formats

- ◆ Automated document interchange
 - ◆ Content based routing, Digital Certificates (PKI)

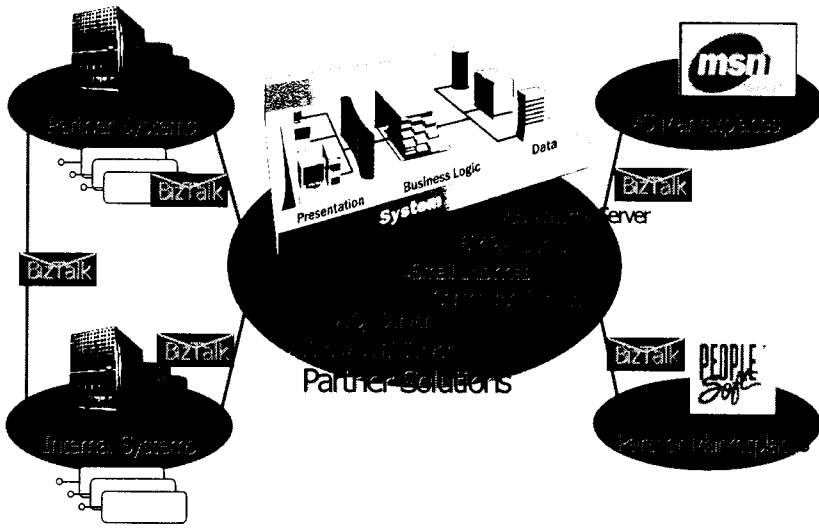
Rich Management and Analysis

Microsoft Commerce Strategy

Integrate

Build

Promote



2. 석유화학과 e-Commerce

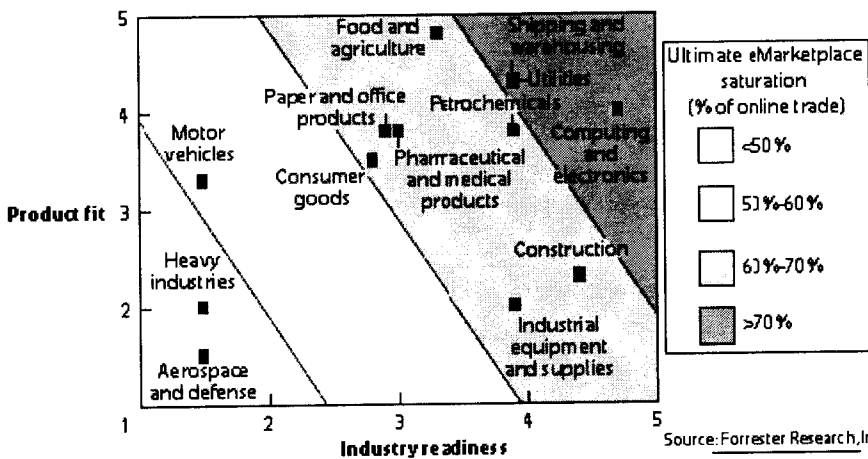
B2B E-Commerce in Petrochemical

	2000	2001	2002	2003	2004	% of total trade
Total (billions)	\$406.2	\$716.6	\$1,166.9	\$1,823.4	\$2,695.5	17%
Computing and electronics	\$230.2	\$343.3	\$427.3	\$506.2	\$592.9	40%
Motor vehicles	\$35.1	\$90.0	\$190.2	\$311.5	\$411.5	26%
Petrochemicals	\$27.0	\$53.9	\$103.2	\$184.5	\$299.2	17%
Utilities	\$29.9	\$56.5	\$101.3	\$170.1	\$266.4	17%
Paper and office products	\$14.4	\$33.7	\$73.9	\$143.5	\$235.3	24%
Consumer goods	\$13.2	\$28.1	\$58.5	\$116.5	\$216.5	13%
Food and agriculture	\$22.5	\$41.2	\$73.9	\$128.1	\$211.1	12%
Construction	\$6.3	\$15.1	\$34.6	\$74.2	\$141.0	10%
Pharmaceutical and medical products	\$4.3	\$10.7	\$26.2	\$60.2	\$124.0	14%
Industrial equipment and supplies	\$7.0	\$13.1	\$23.8	\$41.9	\$70.3	7%
Shipping and warehousing	\$4.6	\$10.5	\$22.4	\$42.5	\$68.1	20%
Aerospace and defense	\$9.1	\$15.8	\$23.1	\$29.0	\$32.9	15%
Heavy industries	\$2.6	\$4.8	\$8.6	\$15.3	\$26.5	3%

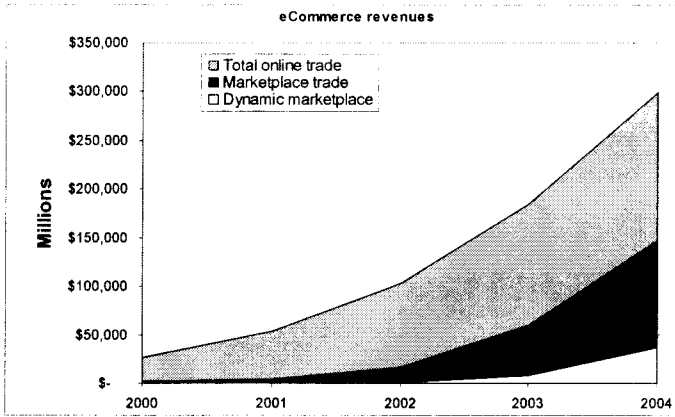
Totals may not equal sum of rows due to rounding

Source: Forrester Research, Inc.

e-Marketplace Opportunity Index



PETROCHEMICALS



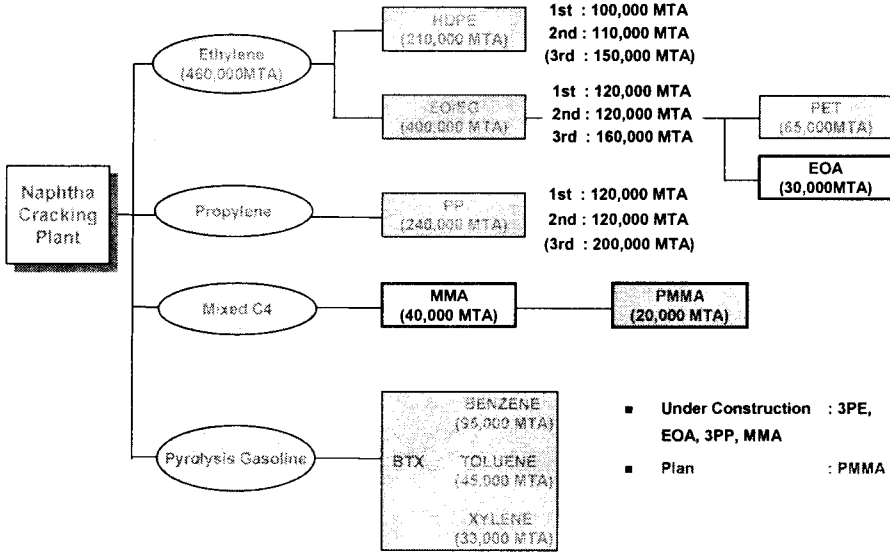
All numbers in millions

Summary of eCommerce revenues						
		2000	2001	2002	2003	2004
Total trade	\$	1,383,479	\$ 1,469,985	\$ 1,561,899	\$ 1,659,561	\$ 1,783,329
Total online trade	\$	26,966	\$ 53,899	\$ 103,234	\$ 184,518	\$ 299,185
Marketplace trade	\$	1,639	\$ 3,665	\$ 16,951	\$ 59,849	\$ 147,135
Dynamic marketplace	\$	24	\$ 118	\$ 1,170	\$ 8,329	\$ 37,039

Source: Forrester Research, Inc.

3.3. Honam Petrochemical Corp.

Products



Management Renovation

BPR (Business Process Reengineering)

Sales Process	1994 ~ 1996
R & D Process	1997 ~ 1998
Accounting Process	1997 ~ 1998
Production Process	1997 ~ 1999

Quality & Environment

ISO 9001	1995. 8
ISO 14000	1995. 12

Downsizing of Computer System

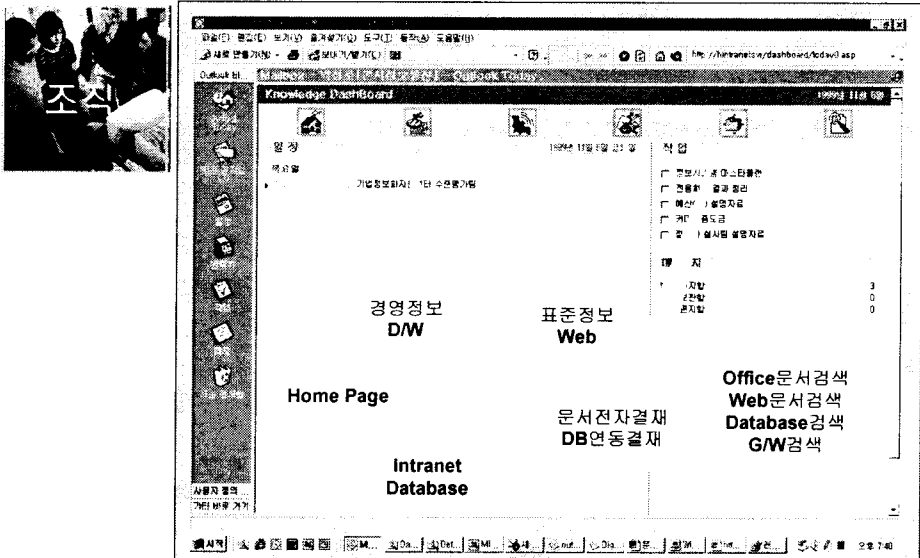
Client / Server System	1994 ~
Internet/Intranet	1997 ~

Knowledge Management 1998 ~

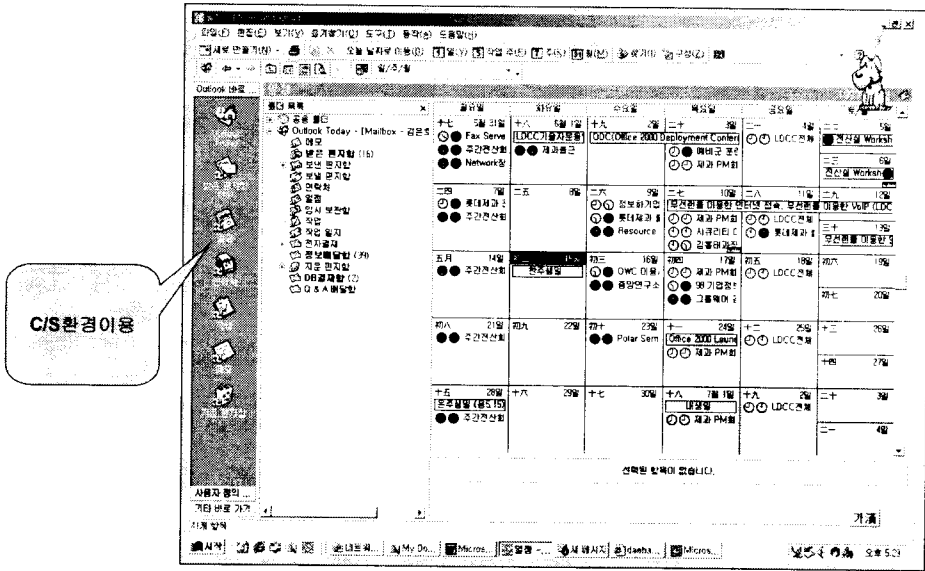
Information System Strategy



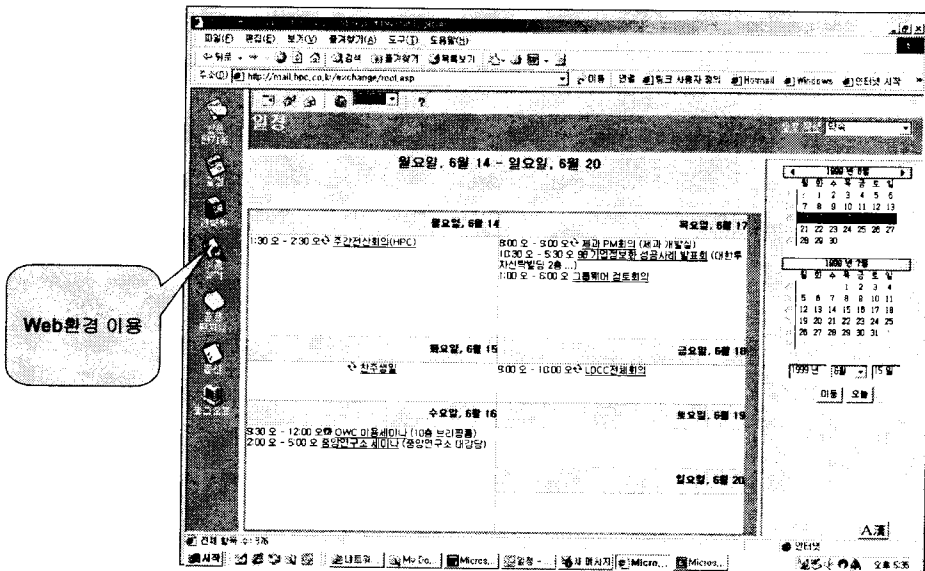
Demo – Portal Client



Demo – Portal Client : Collaboration



Demo – Portal Client : Collaboration



Demo – Portal Client : Workflow

문서전자결재

D/B연동결재 입력화면에

발급자	박종환	구체명	제안등록요도
고용관	기차	차출번호	
출발구분	개발관련	1753명	
출발기간	1999.06.15	1999.06.15 (목)	1996.01.01
출발지역	[01] 대전 - 서울		
출발목적			
비고			

Demo – Portal Client : Workflow: Word Form

문서전자결재 (Word Form)

HPC	기안용지		무 서 명	전원경영팀	
문 서 번호	기획 A41-	리더	팀장	이 사	전 무 사 장
기 안 일	1999.2.22				
기 안 자	김은호				
수 신 품의					
협조차서명	장기선 이사 이정표 이사	생신 BPR 팀장 공정장	감 사		
제 목	생사과리개발				

Demo – Portal Client :Workflow:e-Form

작업요청서 결재를 바랍니다

작업명령서번호: 19990218

요청자: 연구2팀 | 입문역

작업구분: 대기 | 미결 | 미결 | 미결

안전작업허가서: 필요없음

기술검토담당: 신호철

요청일: 1999-08-04 | 요구일: 1999-08-04 | 현재 상태: 공재중

승인 | 보류

작업요청내용: [Blank]

기술검토사항: [Blank]

DB연동결재 (e-Form)

Demo – Portal Client :Publish & Search

Office문서검색

Web문서검색

영업관련 DB 검색

도서,간행물 DB검색

각종계시정보 검색

Search

영업관련 DB 검색

도서,간행물 DB검색

각종계시정보 검색

Demo – Portal Client : Publish & Search

The screenshot shows a web browser window with the URL <http://www.hq.hpc.co.kr/ntserver/knowledge/search/ctrlbase/search/d.co/Master/MemberInfo.asp?code=KAD06>. The page title is "Knowledge Search". A search bar contains the text "(주)프라코". Below the search bar, a table displays customer information:

대표자명	한용범
담당직	핵수영업1담당
담당자	유진혁
등급	A
연계사	노후관리인로
종업원수	300
총 CAPA (MT/년)	250
년간(배출액(천원))	850
업종내역	화장품도자
설비 및 CAPA	시공기(650-2500) 12대
주요산품	자동차 BUMPER(ASPIRE), INPANEL(LANGOS), 내장재(전차용), 급탕
주요종차	기타(40%), 대우(40%), 합동(15%), 현대(5%)
비고	기타(차) B-3(AVELLA#국) BUMPER 개발중(GAS INJECTION 개발중)
주소1	02-8183-071
주소2	충남 아산시 불불면 쇠거리 산16-2
연락번호2	0419-41-8940
구분형태	마감후 90일 시가매출
창립일	1989.07.01

A callout box labeled "고객정보" (Customer Information) points to the table. The browser's status bar shows the date and time as 2006.7.4.

Demo – Portal Client : Publish & Search

The screenshot shows a web browser window with the URL <http://www.hq.hpc.co.kr/ntserver/knowledge/search/ctrlbase/search/d.co/Master/ReportInfo.asp?board=1988215>. The page title is "Knowledge Search". A search bar contains the text "(기아차) CARNIVAL 내장재 CLAIM 건". Below the search bar, a table displays claim information:

발생지	하양식 (KR)
환의지	유진혁
발생일자	1999.07.08
작성일자	유진혁
작성일자	작성일자
작성일자	1999.07.08

Below the table, there is a detailed description of the claim:

1. 발문 목적
기종(차) CARNIVAL 내장재의 HCA-3575-3572-(BERKE) 상형품에 석화현상 발생하여 개선 및 LINE 내로 협의요청 방문
2. 내용
- 기존의 HCA-3575-3572에서 충격개선을 위해 HOMO PP 재질하고 RUBBER 2% 첨가 하여 당시 공급중 석화현상 발생
- 석화현상의 원부 석화물(PILLAR)은 이식이 없으나 구로공정에서 발생하는 DOOR TRIM, SLIDE DOOR TRIM 및 BACK DOOR TRIM에서 발생 발생
- 발생물 2개로 200자 발한 결과 발생물은 조바하여 재발생
- CLAIM 요구시 공역이 없었음 확인
- 발한 추후 결과 인발 미포신 또는 RUBBER 미포신으로 추정
- 연구소 분석결과 TIO2 PEAK이 불발하여 안보 미포신으로 추정
- 이후 7개 상형의상에서 TWIN기에서 작업해KR 7/9 공급해KR 검증 TEST 실시함

A callout box labeled "Claim상세정보" (Claim Detail Information) points to the table. The browser's status bar shows the date and time as 2006.7.4.

Demo – Portal Client :DataWarehouse

각 LOB분야의 경영정보를 DW를 통해 제공

구분	구분명	9월실적	9월예산	10월실적	9월대비 증감률	9월대비 증감률	9월대비 증감률
합계		72,153	75,954	0	-5.27%	-100%	-75,854
영업		58,798	61,274	0	-5.98%	-100%	-61,274
영업	영업외이익	81.5%	75.7%	0%	-81.5%	0%	-75.7%
영업	영업외손실	6.67%	10.60%	0	-6.67%	-100%	-10.60%
영업	영업외이익	255,952	244,258	0	-255,952	-100%	244,258
영업	영업외손실	97,978	95,902	0	-97,978	-100%	-95,902
영업	영업외이익	155,111	153,853	0	-155,111	-100%	-153,853
영업	영업외손실	84%	85%	0%	-84%	0%	-85%
영업	영업외이익	77,317	91,730	0	-77,317	-100%	-91,730
영업	영업외손실	47%	47%	0%	-47%	0%	-47%
영업	영업외이익	933	928	0	-933	-100%	-928
영업	영업외손실	935	932	0	-935	-100%	-932
영업	영업외이익	3,078	2,955	0	-3,078	-100%	-2,955
영업	영업외손실	2,513	2,287	0	-2,513	-100%	-2,287
영업	영업외이익	7,291,850	3,002,830	0	-7,291,850	-100%	-3,002,830
영업	영업외손실	2,588,150	2,453,460	0	-2,588,150	-100%	-2,453,460

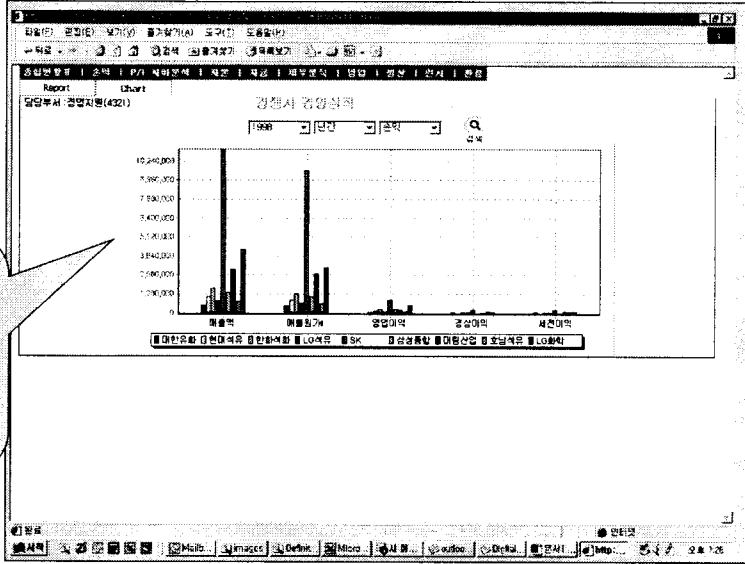
Demo – Portal Client :DataWarehouse

OLAP Client: Excel Pivot Table Service

구분	구분명	계정3	계정3	계정4	실적금액	예산금액	전년실적액	전년실적액	전년실적률
합계		41,557,112	36,034,281	5,622,832					0%
합계		68,297,354	77,708,581	-9,411,227					-12.3%
합계		48,898,137	39,201,173	10,696,964					27.3%
합계		159,852,604	152,944,035	6,908,569					4.5%
합계									16.9%
합계		5,060,282	10,387,845	4,327,563					-41.1%
합계		171,420,664	98,431,683	72,989,001					74.0%
합계									97.8%
합계									29.7%
합계									42.4%

Demo – Portal Client : DataWarehouse

OLAP Client:
Chart Service



Demo – Portal Client : Push

신규정보배달

구분	구분명	종류명	수량
계좌	유동입계통합	전입금 15주	1998/5/11
통금	남입계좌	입계좌	48

Demo – from C/S system to Intranet

Client/Server Database Application

Web Based Database Intranet

GRADE	수량	단가	포장단위	총수량	창기재고유량
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					

Demo – Web Based n-tier DB Application

고객이 직접 거래현황 확인

고객 협력사

[롯데상사(주)] 입고현황 : 1999.06.01 ~ 1999.06.15

GRADE	Lot No	입고일자	입고번호	입고량	수량	단위	종회사	수출번호
1800	012232	5.25	199902087	1999.06.11	구매	롯데상사(주)	정남0019337	
2100	0122180	5.24	199902087	1999.06.11	구매	롯데상사(주)	정남0019337	
5000S	122282	19.06.1	199902022	1999.06.11	구매	롯데상사(주)	MAEU675008	
5000S	122281	5.30	199902022	1999.06.11	구매	롯데상사(주)	MAEU675008	
5000S	122282	5.30	199902089	1999.06.11	구매	롯데상사(주)	MAEU6775374	
5000S	122282	5.31	199902082	1999.06.11	구매	롯데상사(주)	MAEU6775184	
5000S	122282	11.09	199902082	1999.06.11	구매	롯데상사(주)	MAEU6775184	
5000S	7122277	27.03.1	1999021344	1999.06.05	구매	롯데상사(주)	세일기안	
5000S	7122276	29.03.1	1999021344	1999.06.05	구매	롯데상사(주)	세일기안	
5000B	0122250	5.31	199902087	1999.06.11	구매	롯데상사(주)	정남0019337	
5000B	0122247	5.31	199902043	1999.06.02	구매	롯데상사(주)	CRXU1821293	
5000B	0122230	5.31	199902087	1999.06.11	구매	롯데상사(주)	정남0019337	
700F	0122275	5.1	199902022	1999.06.12	구매	세일기안	정남0019337	
700F	0122275	5.1	199902020	1999.06.12	구매	세일기안	정남0019337	
BENZENE	19990611	5.04.01	199902089	1999.06.11	구매	롯데상사(주)	정남0019337	
ETMB	0161AC28	0.5	199902035	1999.06.02	구매	세일기안	정남0019337	
J-360	412502	5.31.1	199902045	1999.06.09	구매	롯데상사(주)	GLUD0329955	
J-360	412501	4.31.1	199902017	1999.06.09	구매	롯데상사(주)	WHLU0302949	
J-360	412502	11.31.1	199902217	1999.06.09	구매	롯데상사(주)	WHLU0302949	
J-360	412501	5.31.1	199902216	1999.06.09	구매	롯데상사(주)	WHLU0302949	
J-360	412501	5.31.1	199902202	1999.06.09	구매	롯데상사(주)	GLUD0302288	
J-360	412595	3.1.0	199902194	1999.06.09	구매	롯데상사(주)	WHLU0205146	
J-360	412601	12.6.1	199902194	1999.06.09	구매	롯데상사(주)	WHLU0205146	
J-360	412595	7.1	199902084	1999.06.09	구매	롯데상사(주)	WHLU0205146	
L-670B	320266	5.00.1	199902499	1999.06.10	구매	롯데상사(주)	정남0019337	
L-670B	320266	5.00.1	199902496	1999.06.10	구매	롯데상사(주)	정남0019337	

